

I-20 at Savannah River Design-Build Bridge Replacement Industry Forum

March 13, 2018

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Disclaimer Statement

At this meeting, the Department will provide information about the project's delivery goals, anticipated scope, anticipated Design-Build procurement process, and potential risks.

Participants will be encouraged to ask questions during this meeting; however, **any information provided by the Department shall be considered as informational only and is subject to change.**

Agenda

- Design-Build Overview
- Schedule
- Project Overview
- Design-Build Procurement
- Open Discussion

Design-Build Overview

Design-Build

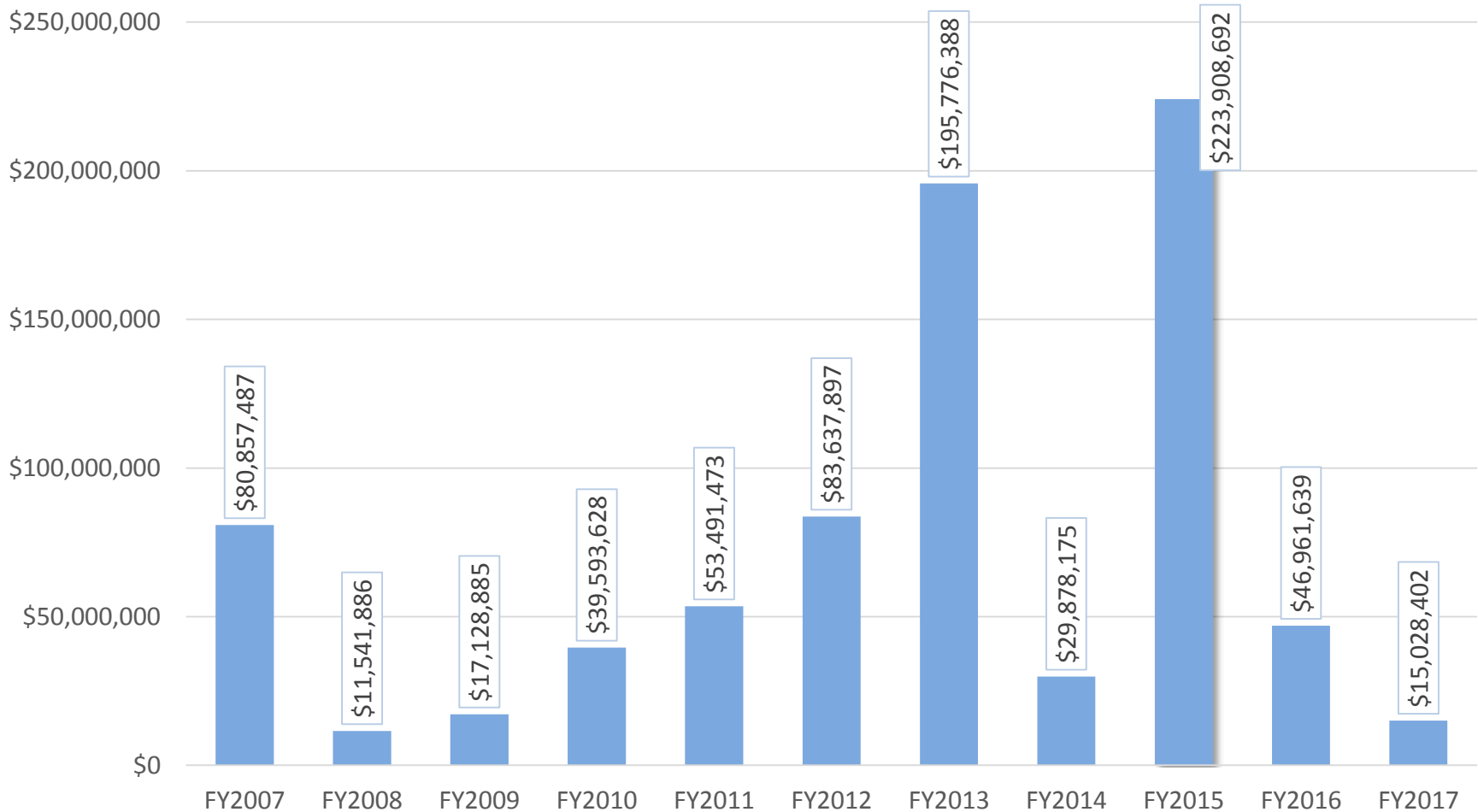
- Combines preconstruction related services with construction services into **one contract**
- Allows the contractor to participate in the project's design in an effort to **reduce costs, improve communication, and expedite project delivery**

Governed by:

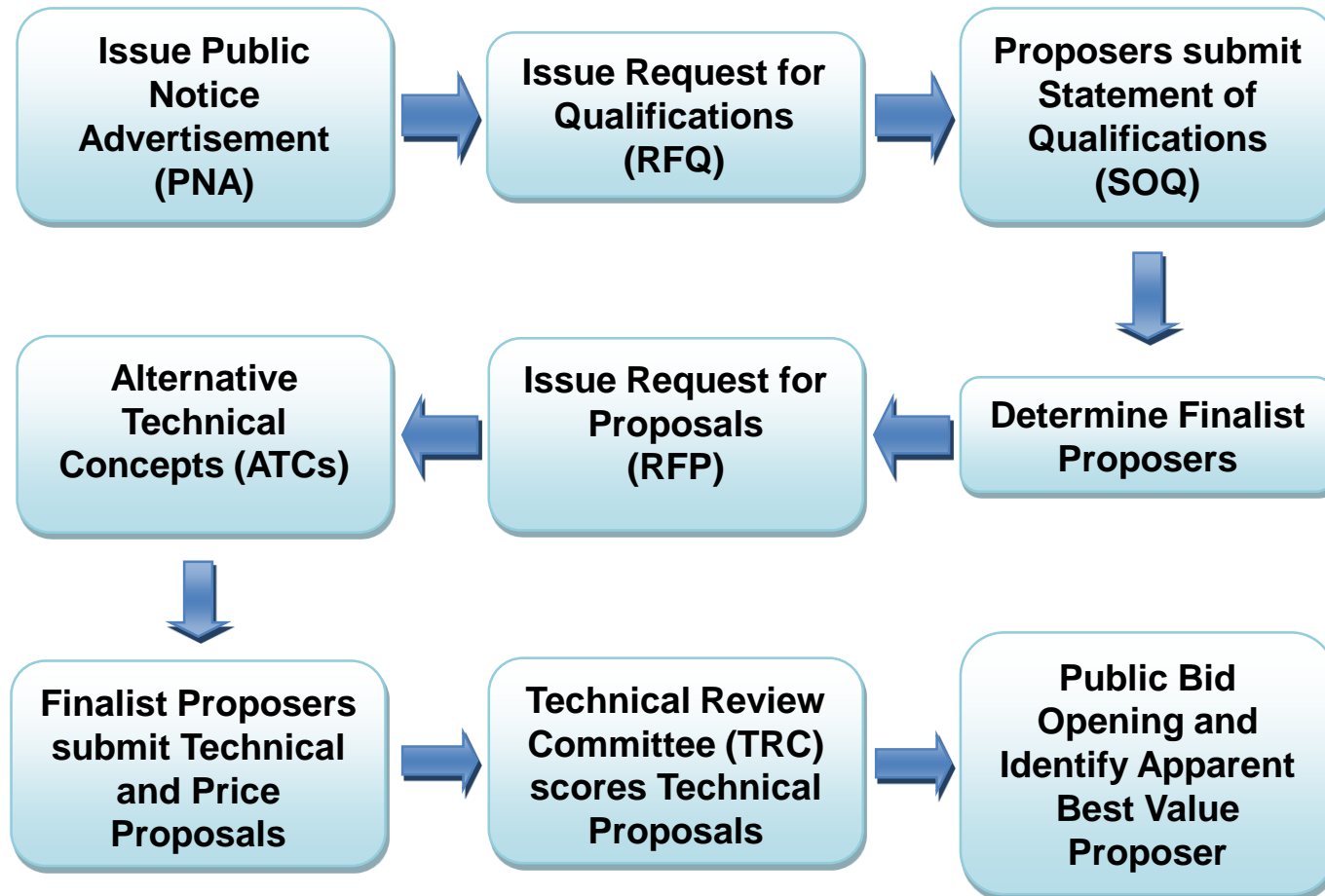
- 23 Code of Federal Regulations (CFR) Part 636
- Georgia Code Section 32-2-81 (*Enacted 2004*)
- Board Rules, Chapter 672-18 (*Adopted 2006 & 2013*)

Innovative Delivery

Georgia Department of Transportation
Amount Awarded to Design-Build Contracts per Fiscal Year



Anticipated Design-Build Best Value Procurement Process



Tentative Schedule

a. GDOT issues Public Notice Advertisement (PNA)	02/06/2018	-----
b. Industry Forum – GDOT Room 403/404	03/13/2018	10:00 A.M.
c. Industry one-on-one meetings – GDOT Room 407/409	03/13/2018	12:00 P.M. - 4:00 P.M.
d. GDOT issues Request for Qualifications (RFQ)	03/30/2018	-----
e. Deadline for Statement of Qualifications (SOQ)	05/11/2018	11:00 A.M.
f. GDOT issues the Notice to Finalists	06/01/2018	-----
g. GDOT issues Request for Proposals (RFP) to the Finalists	06/14/2018	-----
h. Receipt of Price and Technical Proposals from Finalists	09/28/2018	11:00 A.M.
i. GDOT letting	10/19/2018	11:00 A.M.

Anticipated Stipulated Fee

- \$150,000 approved stipulated fee for PI 210327-
- 0.2% of the anticipated Design-Build Contract Value per Table 1.2 of the Design-Build Manual below:

Design-Build Estimated Contract Value	Best Value	Two Phase Low Bid (w/ Shortlist)	Two Phase Low Bid (all qualified)	One Phase Low Bid
>\$50M	0.2 % Minimum 0.2 % Recommended	0.1 % Minimum 0.2 % Recommended	0.0 % Minimum 0.1 % Recommended	No Stipulated Fee
<\$50M	0.2 % Minimum 0.4 % Recommended	0.1 % Minimum 0.2 % Recommended	0.0 % Minimum 0.1 % Recommended	No Stipulated Fee

Stipulated Fee Requirements

In exchange for a Stipulated Fee, Proposers must turn over to the Department all project related information collected and prepared during the preparation of the price and technical proposal.

This may include, but is not limited to:

- Approved Alternative Technical Concepts (ATC)
- Revised plan layouts
- Geotechnical data
- CAD files
- Detailed project schedule
- Record of correspondence with agencies

This information will be provided to the awarded Design-Build Team.

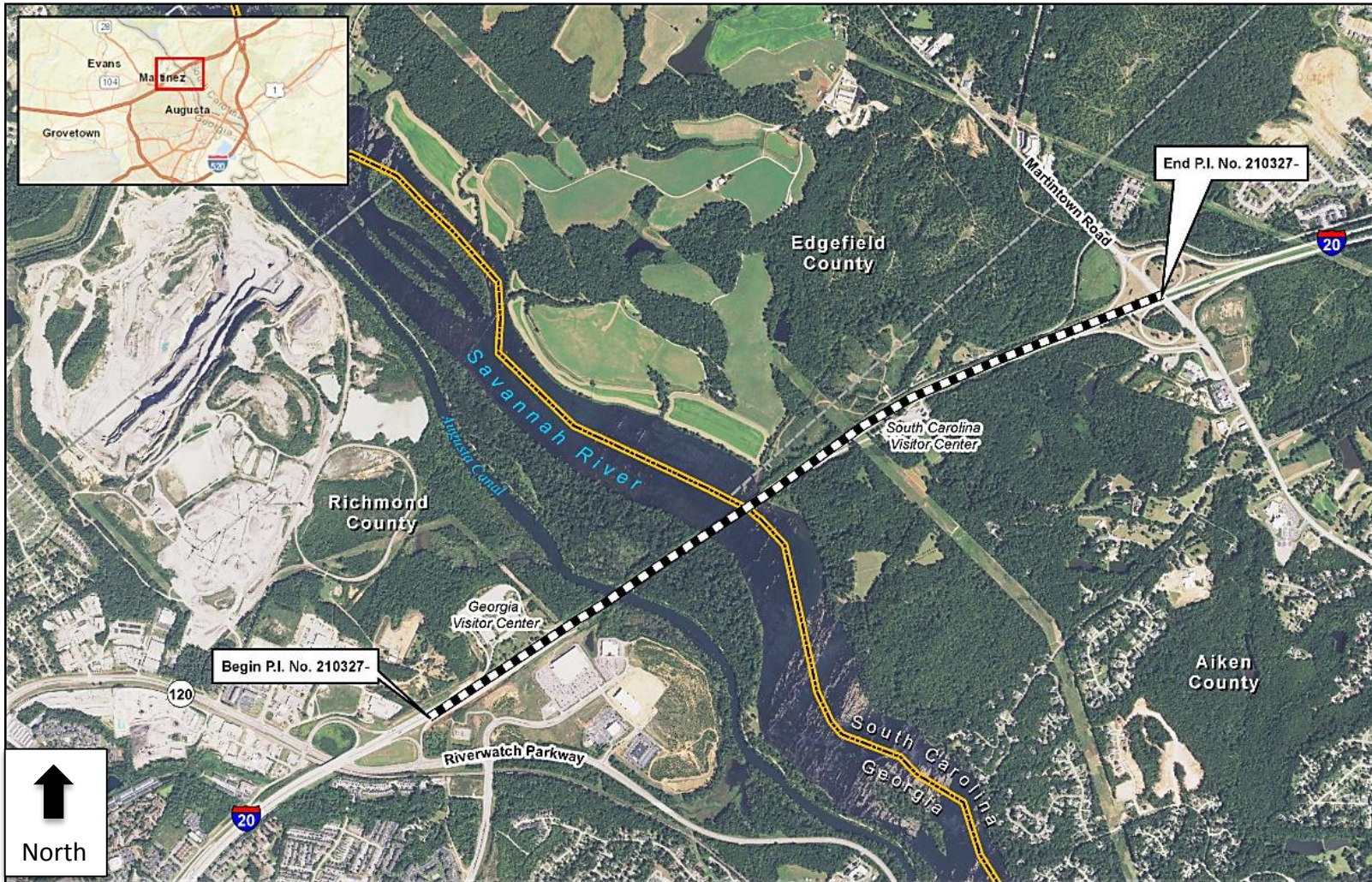
The Department will also have the ability to negotiate approved ATCs from unsuccessful Proposers into the awarded Design-Build Team's contract to obtain additional value or cost savings for the Department.

Project Overview

- Design-Build delivery
- Bi-State Agreement signed by Georgia and South Carolina in 2016
 - GDOT and FHWA Georgia Division lead PE, Environmental, and Project Delivery
- Maintain existing traffic during construction
- No right-of-way (ROW) acquisition
- DBE Goal for the Project is 11%



I-20 at Savannah River Project Location



Existing Bridges

	Augusta Canal Bridges	Savannah River Bridges
Year Constructed	1964	1965
Number of Spans	5	18
Span Lengths	70' to 90'	63' to 100'-3"
Number of Lanes (each direction)	2	2
Lane Width	12'	12'
Shoulder Width	2'	2'
Distance between Bridge Shoulders	49'-9"	49'-9"

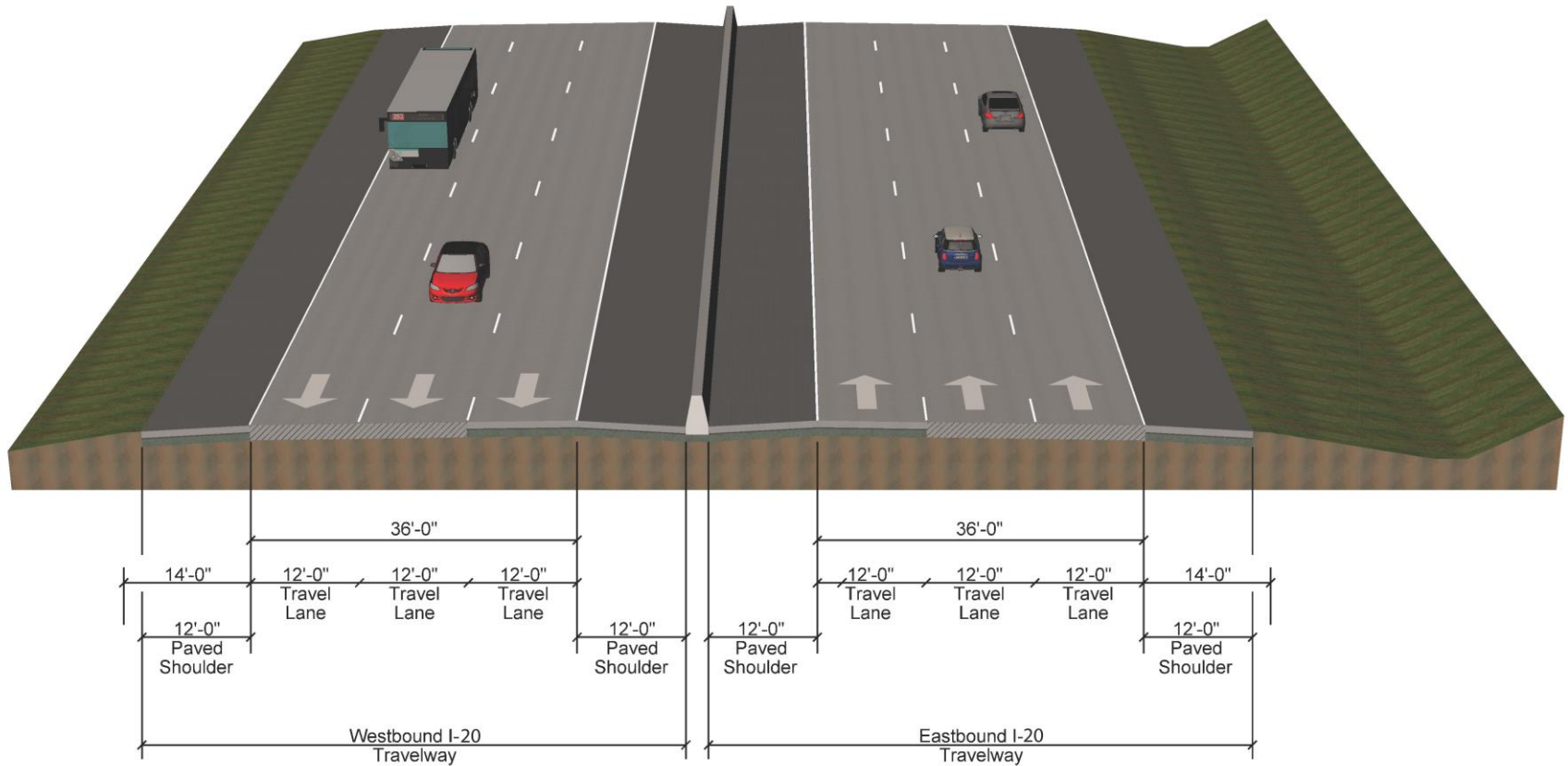
Proposed Improvements

- Replace functionally and structurally obsolete bridges on I-20 EB and WB over
 - ≈ Augusta Canal
 - ≈ Savannah River
- Provide future capacity along I-20:
 - Widen from 4 lanes to 6 lanes
 - 12-foot inside and outside paved shoulders
 - Limits extend from the Georgia Welcome Center in Richmond County, Georgia to Exit 1, W. Martintown Road in Aiken County, South Carolina
 - Total length is approximately 1.8 miles
- Signalize the intersection at Exit 1
 - New signal at I-20 EB off-ramp and W. Martintown Road
 - Turn lane improvements

Approved Pavement Type

Location	Roadway Section	Pavement Type
Georgia	Travel Lanes	Concrete
	Inside Shoulder	Asphalt
	Outside Shoulder	Concrete or Asphalt
South Carolina	Travel Lanes	Concrete
	Inside Shoulder	Concrete
	Outside Shoulder	Concrete

Proposed Typical Section



Looking East on I-20

Risks and Mitigation Strategies

Risk	Mitigations for RFP
Geotechnical	<ul style="list-style-type: none">• Provide existing BFI's, Soil Survey, and Geotechnical boring logs/samples
Survey Database	<ul style="list-style-type: none">• Provide Survey database
Environmental	<ul style="list-style-type: none">• Environmental-related scope items and anticipated review/approval durations• Anticipated in-water work durations• Finalize in-water work prior to opening of USACE Savannah Harbor and Expansion Project (SHEP) to avoid additional National Marine Fisheries Service (NMFS) coordination.
Design Exception/ Design Variance	<ul style="list-style-type: none">• Approved known instances of DE/DV

Risks and Mitigation Strategies

Risk	Mitigations for RFP
Hydraulics	<ul style="list-style-type: none">• Perform hydraulics screening• Hydraulic memo• Pre-approve known hydraulic variance(s)
Local Outreach	<ul style="list-style-type: none">• Early and ongoing coordination with stakeholders
Cost Estimate	<ul style="list-style-type: none">• Continue to monitor industry trends
Overall Contract Duration	<ul style="list-style-type: none">• Establish reasonable durations per contract in order to complete all of the Work
Utilities	<ul style="list-style-type: none">• SUE QL-D• Early coordination with utility owners• Executed MOUs• Early coordination with Augusta Utilities and FERC

Bi-State Special Considerations

- Design Consultant only required to be prequalified in Georgia
 - DB Team must have an Engineer registered in both Georgia and South Carolina
- Contractor is only required to be prequalified in Georgia
- SCDOT Specifications will be followed from the Back Face Paving Rest on the east end of the Savannah River Bridge to Project end in South Carolina.
- Contract Specifications will be included for each respective State
- DB Team will need business license in each state

Environmental Concerns

- Shallow bedrock (limits construction options)
- Cultural Resources
 - Augusta Canal and Industrial District National Historic Landmark
 - Archaeological resources
- Recreational Area
 - Augusta Canal National Heritage Area
 - Towpath (two closures allowed, up to 8 weeks each time)
 - Recreational use of canal (one closure allowed, up to 8 weeks)
- Ecology Resources
 - Special Provision 107.23H for state and federal protected species implemented for fish, mussels, and plants
 - Species included in SP 107.23H: Northern long-eared bat, robust redhorse, Atlantic pigtoe, delicate spike, Savannah Lilliput, and relict trillium
- Other Challenges
 - Additional vertical clearance over Towpath
- Permits – Georgia, South Carolina, and federal requirements

Design-Build Team Roles and Responsibilities

- Construction to comply with applicable specifications within each state
- Bridge and Roadway design
- Schedule development/management
- Geotechnical reports
- Stream buffer variance application (if needed)
- USACE Section 404 permit preparation (Savannah and Charleston Districts)
- Permit and mitigation costs
- Maintain traffic as well as install and maintain construction signage (as needed)
- Utility coordination and relocation (if needed)
- Complete project within allowable construction duration

GDOT

Roles and Responsibilities

- Submittal review
- Environmental Special Studies/NEPA preparation and approval
- Construction Oversight/CEI
 - Material Testing will be provided by OMAT
 - CEI performed by OID Programmatic CEI South Contract

Anticipated RFQ Evaluation Criteria

- Must demonstrate required Consultant Area Classes
- Relevant project experience, qualifications, and availability of the:
 - Lead Contractor Project Manager
 - Lead Consultant Project Manager
 - Select Key Team Members
- Suitability to provide services for project
- Past performance
- Finalists – 3 to 5 highest qualified teams

Anticipated RFP

Best Value Selection Criteria

Technical Proposal - 25%

- Technical Score is based on 250 maximum total points.
- Evaluation Criteria may include:
 - Construction Staging and Traffic Management Plan
 - Project Schedule
 - Environmental Impacts/Public Outreach
 - Project Management Approach

Price Proposal - 75%

- The Price Proposal Score is based on 750 maximum total points.

Questions?

GDOT Design-Build Webpage

<http://www.dot.ga.gov/PS/Innovative/DesignBuild>

GDOT Design-Build SharePoint Site

<http://mydocs.dot.ga.gov/info/designbuild/default.aspx>